

# ABSTRACT

A The present invention has as its object to provide an air filter <sup>not only</sup> for trapping suspended particulate substances <sup>but also for not generating hazardous contaminants</sup> in the air,

5 which cause trouble in the manufacture of semiconductor devices. *Next*

*As* As a binder to bind fibers of the air filter together, a polymer dispersion is used in which a copolymer of a hydrophilic monomer and a hydrophobic monomer is dispersed in  
10 water. As an initiator for polymerization of the copolymer, an organic peroxide is used. When an air filter (8) is installed downstream of a chemical filter (7), the space (4) placed downstream of the air filter (8) is made substantially free of organic substances and/or inorganic substances that cause  
15 trouble in the manufacture of semiconductor devices.